International application No. PCT/CA2004/001509

A. CLASSIFICATION OF SUBJECT MATTER IPC6 C07D 209/86, C08F 26/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6 C07D 209/86, C08F 26/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Canadian Patent Database, Delphion, STN

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	WO 03/022816 A1 (EQUISTAR CHEMICALS, LP) 20 March 2003, page 2, lines 11-28.	1
x	US 5902884 (CLARIANT GMBH) 11 May 1999, column 2, lines 16-52 and examples 1 to 8.	1
' X'	CA 2196046 (SANKYO COMPANY) 08 February 1996, pages 5 to 9.	1
· x	CA 1026348 (HOFFMAN-LA ROCHE LIMITED) 14 February 1978, page 2.	1
х	Limburg, W.W.; Yanus, J.F.; Williams, D.J.; Goedde, A.O.; Pearson, J.M. Anionic Plymerization of N-Ethyl-2-Vinylcarbazole and N-Ethyl-3-Vinylcarbazol. <i>Journal of Polymer Science, Polymer Chemistry Edition</i> , 1975, 13(5), 1133-9, whole document.	1, 2, 28, 44 and 100
х	Ambrose, J.F.; Nelson, R.F. Anodic Oxidation Pathways of Carbazoles. <i>J. Electrochem. Soc.</i> , 1968, 115, 1159-1164, whole document.	1
x	Registry Number 86-74-8 CAPLUS (9H-Carbazole)	1
x	Registry Number 1484-12-4 CAPLUS (9-Methyl-Carbazole)	1
\mathbf{x}	Registry Number 86-28-2 CAPLUS (9-Ethyl-Carbazole)	1
х	Registry Number 1484-08-8 CAPLUS (9-Butyl-Carbazole)	1
x	Registry Number 1150-62-5 CAPLUS (9-Phenyl-Carbazole)	1

Further documents are listed in the continuation of Box C. $\underline{\mathbf{X}}$	Patent family members are listed in annex. $\underline{\mathbf{X}}$
 * Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	to understand the principle or theory underlying the invention." document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
Date of the actual completion of the international-type search	Date of mailing of the international-type search report

Date of the actual completion of the international-type search 10 Novembre 2004 (10.11.2004)	Date of mailing of the international-type search report 24 December 2004 (24-12-2004)
Name and mailing address of the ISA/ Commissioner of Patents Canadian Patent Office - PCT	Authorized officer Edith Lacasse (819) 934-2325

Form PCT/ISA/210 (second sheet) (January 2004)

Facsimile No. 1-819-953-9358

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001509

Continuation DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages X Registry number 56166-62-2 CAPLUS (9-ethyl-Carbazole-2-carboraldehyde) X Registry number 3110-89-1 CAPLUS (9-ethyl-Carbazole-2-rationaldehyde) Y CA 2560826 (UNIVERSITE LAVAL) 30 April 2002, page 2, lines 15-24. It to 139 It to 139 It to 139 Coldon i, F., Bansen, A.L., Melier, E.W., Synthesis and Characterization of New Copulmens of Thioghean and Synthesis of Thioghean and Synthe		PC1/CA2004/	001309
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INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001509

Box	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This	interna	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	[]	Claims Nos.: because they relate to subject matter not required to be searched by this Authority; namely:
2.	[X]	Claims Nos.: 44 (in part) and 100 (in part)
		because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
		due to the lack of support and the broadness of claims 44 and 100, the search of claims 44 and 100 was limited to polymerization products of 2-functionalized and 2,7-difunctionalized carbazole derivatives and to the examples given in figures 1 to 4.
3.	[]	Claims Nos.: because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Во	x III	Observation where unity of invention is lacking (Continuation of item 3 of first sheet)
Thi	is Intern	ational Searching Authority found multiple inventions in this international application, as follows:
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1.	[]	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	[]	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	[]	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	[]	No required additional search fees were timely paid by the applicant. Consequently, this international search report is
		restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Re	mark o	Protest [] The additional search fees were accompanied by the applicant's protest. [] No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/CA2004/001509

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